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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,322	12/23/2004	Ernest C Chen	PD-202109	9113

EXAMINER
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AHN, SAM K

ART UNIT	PAPER NUMBER
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2611

DATE MAILED: 04/21/2008

20991 7590 04/21/2008  
THE DIRECTV GROUP, INC.  
PATENT DOCKET ADMINISTRATION  
CA / LA1 / A109  
P O BOX 956  
EL SEGUNDO, CA 90245-0956

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 537 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 537 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.



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## NOTICE OF ALLOWANCE AND FEE(S) DUE

20991 7590 04/21/2008

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,322	12/23/2004	Ernest C Chen	PD-202109	9113
TITLE OF INVENTION: IMPROVING HIERARCHICAL 8PSK PERFORMANCE				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/21/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to:** Mail **Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450**  
or Fax **(571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20991 7590 04/21/2008

**THE DIRECTV GROUP, INC.  
PATENT DOCKET ADMINISTRATION  
CA / LA1 / A109  
P O BOX 956  
EL SEGUNDO, CA 90245-0956**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/519,322	12/23/2004	Ernest C Chen	PD-202109	9113
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**TITLE OF INVENTION:** IMPROVING HIERARCHICAL 8PSK PERFORMANCE

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nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/21/2008
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EXAMINER	ART UNIT	CLASS-SUBCLASS
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AHN, SAM K	2611	375-329000
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1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, \_\_\_\_\_ 1
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. \_\_\_\_\_ 2
- \_\_\_\_\_ 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**Notice of Allowability**

Application No.

10/519,322

Applicant(s)

CHEN ET AL.

Examiner

SAM K. AHN

Art Unit

2611

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 02/13/08.
2. ☒ The allowed claim(s) is/are 13-16 and 18, renumbered in the previous office action.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 20080415.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date <u>0407,0317,0314,0118</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                              | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 02/13/08 has been entered.

### ***Drawings***

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: element box 216 or 218 in Figure 4 is changed to describe the element box as "LP Signal Demod / Symbol Decode". In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.
3. The following is an examiner's statement of reasons for allowance: present application discloses a method and an apparatus of a receiver receiving hierarchically modulated signals, wherein the receiver comprises a demodulator, decoder and re-encoder. Prior art teaches all the limitations claimed. However, prior art does not further teach a correcting demodulator coupled to receive output signal

from the re-encoder for demodulating the hierarchical signal using the error corrected and re-encoded symbols from the demodulated first signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

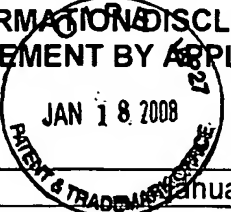
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Ahn whose telephone number is (571) 272-3044. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Sam K. Ahn/  
Primary Examiner, Art Unit 2611

4/18/2008

Substitute for form PTO/SB/08A		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> 		Application Number	10/519,322
		Filing Date	12/23/2004
		First Named Inventor	Ernest C. Chen
		Art Unit	2611
		Examiner Name	AHN, Sam K.
Date: January 16, 2008			
Sheet 1 of 1		Attorney Docket Number	PD-202109

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2003/0072385	04-2003	Dragonetti, Philip George	
		US-6,529,715	03-2003	Kitko et al.	
		US-2003/0147472	08-2003	Bach et al.	
		US-6,700,442	03-2004	Ha, Thomas Quang	
		US-2002/0172296	11-2002	Pilcher, Michael E.	
		US-2002/0082792	06-2002	Bourde et al.	
		US-6,320,464	11-2001	Suzuki et al.	
		US-6,335,951	01-2002	Cangiani et al.	
		US-5,471,508	11-1995	Koslov, Joshua L.	
		US-6,980,609	12-2005	Ahn, Keun Hee	
		US-6,956,924	10-2005	Linsky et al.	
		US-6,192,088	02-2001	Aman et al.	
		US-7,173,981	02-2007	Chen et al.	
		US-6,452,977	09-2002	Goldston et al.	
		US-2001/0055295	12-2001	Akiyama et al.	
		US-5,237,292	08-1993	Chethik, Frank	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		COMBAREL, L. et al.; "HD-SAT Modems for the Satellite Broadcasting in the 20 GHz Frequency Band; IEEE Transactions on Consumer Electronics; Volume 41, Issue 4; November 1995; pages 991-999	

USPTO COMMUNICATIONS IN RELATED APPLICATIONS					
Examiner Initials*	Cite No.	Serial No.	Filing Date	First Inventor	Document Description
		10/519,375	12/22/2004	Ernest C. Chen	Non-final Communication dated 12/27/2007
		10/913,927	08/05/2004	Ernest C. Chen	Non-final Communication dated 12/11/2007
		11/619,173	01/02/2007	Ernest C. Chen	Non-final Communication dated 11/15/2007
		10/532,631	04/25/2005	Paul R. Anderson	Non-final Communication dated 11/19/2007
		10/691,032	10/22/2003	Weizheng Wang	Non-final Communication dated 11/16/2007
		10/532,619	04/25/2005	Ernest C. Chen	Notice of Allowance dated 12/26/2007
		11/603,776	11/22/2006	Ernest C. Chen	Notice of Allowance dated 01/02/2008
		10/532,632	04/25/2005	Ernest C. Chen	Notice of Allowance dated 01/07/2008

Examiner Signature	/Sam Ahn/	Date Considered	04/15/2008
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SA/

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Date: March 11, 2008			
Sheet 1 of 3	Attorney Docket Number	PD-202109	

U.S. PATENT DOCUMENTS					
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		US-2003/0072385	04-2003	Dragonetti, Philip George	
		US-6,529,715	03-2003	Kitko et al.	
		US-2003/0147472	08-2003	Bach et al.	
		US-6,700,442	03-2004	Ha, Thomas Quang	
		US-2002/0172296	11-2002	Pilcher, Michael E.	
		US-2002/0082792	06-2002	Bourde et al.	
		US-6,320,464	11-2001	Suzuki et al.	
		US-6,335,951	01-2002	Cangiani et al.	
		US-6,072,841	06-2000	Rahnema, Moe	
		US-6,772,182	08-2004	McDonald et al.	
		US-6,922,439	07-2005	Yamaguchi et al.	
		US-5,043,734	08-1991	Niho, Yoji G.	
		US-6,795,496	09-2004	Soma et al.	
		US-6,246,717	06-2001	Chen et al.	
		US-5,337,014	08-1994	Najle et al.	
		US-5,412,325	05-1995	Meyers	
		US-5,608,331	03-1997	Newberg et al.	
		US-5,870,439	02-1999	Ben-Efraim et al.	
		US-5,940,750	08-1999	Wang	
		US-5,952,834	09-1999	Buckley	
		US-5,970,429	10-1999	Martin	
		US-6,134,282	10-2000	Ben-Efraim et al.	
		US-5,471,508	11-1995	Koslov, Joshua L.	
		US-6,980,609	12-2005	Ahn, Keun Hee	
		US-6,956,924	10-2005	Linsky et al.	
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		US-7,173,981	02-2007	Chen et al.	
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		US-5,237,292	08-1993	Chethik, Frank	
		US-6,125,260	09-2000	Wiedeman et al.	
		US-5,937,004	08-1999	Fasulo et al.	
		US-5,285,480	02-1994	Chennakeshu et al.	
		US-4,829,543	05-1989	Borth et al.	

Examiner Signature	/Sam Ahn/	Date Considered	04/15/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SA/



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		Examiner Name	AHN, Sam K.
Date:	March 11, 2008		
Sheet 2 of 3		Attorney Docket Number	PD-202109

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2007/0121718	05-2007	Wang et al.	
		US-5,970,156	10-1999	Hummelgaard et al.	
		US-4,422,175	12-1983	Bingham et al.	
		US-6,661,761	12-2003	Hayami et al.	
		US-7,263,119	08-2007	Hsu et al.	
		US-2003/0185310	10-2003	Ketchum et al.	
		US-6,922,436	07-2005	Porat et al.	
		US-5,353,307	10-1994	Lester et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T
		WO 01/19013	03-2001	Home Wireless Networks Inc.	
		FR 2724522	03-1996	France Telecom	Cover of French publication and English abstract

NON PATENT LITERATURE DOCUMENTS					T
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		SCOTT, R. P. et al.; "Ultralow Phase Noise Ti:sapphire Laser Rivals 100 MHz Crystal Oscillator; 11-15 November 2001; IEEE-Leos; pages 1-2			
		COMBAREL, L. et al.; "HD-SAT Modems for the Satellite Broadcasting in the 20 GHz Frequency Band; IEEE Transactions on Consumer Electronics; Volume 41, Issue 4; November 1995; pages 991-999			
		EPO Communication dated 02/07/2008 in European counterpart Application No. 03 742 400.9 of U.S. Serial No. 10/519,322 filed 07/01/2003 by Ernest C. Chen et al.			
		Canadian Office Action dated 04/30/2007 in Canadian counterpart Application No. 2489569 of U.S. Serial No. 10/519,322 filed 07/01/2003 by Ernest C. Chen et al.			
		The Authoritative Dictionary of IEEE Standards Terms; Seventh Edition; pp. 1047; publication year: 2000			

Examiner Signature	/Sam Ahn/	Date Considered	04/15/2008
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Substitute for form PTO/SB/08A		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/519,322
		Filing Date	12/23/2004
		First Named Inventor	Ernest C. Chen
		Art Unit	2611
		Examiner Name	AHN, Sam K.
Date:	March 11, 2008		
Sheet 3 of 3		Attorney Docket Number	PD-202109

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		Non-final Office Action dated 03/03/2008 in U.S. Patent Application No. 11/656,662 filed 01/22/2007 by Ernest C. Chen	
		Non-final Office Action dated 12/27/2007 in U.S. Patent Application No. 10/519,375 filed 12/22/2004 by Ernest C. Chen	
		Non-final Office Action dated 12/11/2007 in U.S. Patent Application No. 10/913,927 filed 08/05/2004 by Ernest C. Chen	
		Non-final Office Action dated 11/15/2007 in U.S. Patent Application No. 11/619,173 filed 01/02/2007 by Ernest C. Chen	
		Non-final Office Action dated 11/19/2007 in U.S. Patent Application No. 10/532,631 filed 04/25/2005 by Paul R. Anderson et al.	
		Non-final Office Action dated 11/16/2007 in U.S. Patent Application No. 10/691,032 filed 10/22/2003 by Weizheng Wang et al.	
		Notice of Allowance dated 12/26/2007 in U.S. Patent Application No. 10/532,619 filed 04/25/2005 by Ernest C. Chen	
		Notice of Allowance dated 01/02/2008 in U.S. Patent Application No. 11/603,776 filed 11/22/2006 by Ernest C. Chen	
		Non-final Office Action dated 05/31/2007 in U.S. Patent Application No. 10/692,539 filed 10/24/2003 by Ernest C. Chen	
		Notice of Allowance dated 09/20/2007 in U.S. Patent Application No. 10/692,539 filed 10/24/2003 by Ernest C. Chen	
		Notice of Allowance dated 01/07/2008 in U.S. Patent Application No. 10/532,632 filed 04/25/2005 by Ernest C. Chen	

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		Filing Date	12/23/2004
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		Art Unit	2611
		Examiner Name	AHN, Sam K.
Date:	March 13, 2008		
Sheet 1 of 1	Attorney Docket Number	PD-202109	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document  Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T
		EP 1 335 512	08-2003	Hughes Electronics Corp	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
		ARSLAN, HUSEYIN and MOLNAR, KARL; "Co-Channel Interference Cancellation with Successive Cancellation in Narrowband TDMA Systems"; Wireless Communications and Networking Conference; 2000; WCNC; 2000 IEEE 23-28 September 2000; Piscataway, New Jersey, USA; pages 1070-1074; XP010532692; ISBN: 0-89-3-6596-8; Chapters I and III			

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/519,322
		Filing Date	12/23/2004
		First Named Inventor	Ernest Chen
		Art Unit	2611
		Examiner Name	AHN, Sam K.
Date:	April 3, 2008		
Sheet 1 of 1	Attorney Docket Number	PD-202109	

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	1	US-2007/0011716	01-2007	Koslov et al.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
	2	Non-final Communication dated 03/03/2008 in U.S. Patent Application Serial No. 11/656,662 filed 01/22/2007 by Ernest C. Chen et al.			
	3	Notice of Allowance dated 03/25/2008 in U.S. Patent Application Serial No. 11/653,517 filed 01/16/2007 by Ernest C. Chen			
	4	EPO Communication dated 03/11/2008 in European counterpart Application No. 03777694.5 of corresponding U.S. Application No. 10/532,509 filed 10/17/2003 by Ernest Chen et al., now issued as U.S. Patent No. 7,230,480			
	5	EPO Communication dated 03/07/2008 in European counterpart Application No. 03742393.6 of corresponding U.S. Application No. 10/519,375 filed 07/03/2003 by Ernest Chen et al.			
	6	Canadian Office Action dated 09/12/2007 in Canadian counterpart Application No. 2491259 of corresponding U.S. Patent Application Serial No. 10/519,375 filed 07/03/2003 by Ernest C. Chen et al.			
	7	Norwegian Office Action dated 11/15/2007 in Norwegian counterpart Application No. 20026115 of corresponding U.S. Patent Application Serial No. 09/844,401 filed 04/27/2001 by Ernest C. Chen, now Patent No. 7,209,524			
	8	EPO Communication dated 08/03/2007 in European counterpart application No. 03794510.2 of corresponding U.S. Patent Application Serial No. 10/236,414 filed 09/06/2002 by Ernest C. Chen et al.			
	9	Non-final Office Communication dated 10/16/2007 in U.S. Application No. 10/962,346 filed 10/08/2004 by Ernest Chen			
	10	Non-final Office Communication dated 04/01/2008 in U.S. Application No. 10/961,579 filed 10/08/2004 filed by Ernest C. Chen			

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Notice of References Cited

Application/Control No.

10/961,579

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Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0078778 A1	04-2005	Chen, Ernest C.	375/346
*	B	US-3,974,449	08-1976	Falconer, David Duncan	375/233
*	C	US-6,104,747	08-2000	Jalloul et al.	375/150
*	D	US-2007/0011716 A1	01-2007	Koslov et al.	725/135
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	F	US-			
	G	US-			
	H	US-			
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FOREIGN PATENT DOCUMENTS

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	N					
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NON-PATENT DOCUMENTS

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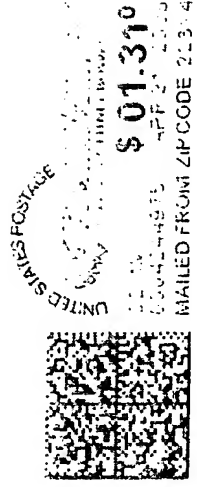
Notice of References Cited

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